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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/270,273	03/16/1999	KAZUYA KINOSHITA	P7156-9012	2283

4372 7590 10/22/2003

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EXAMINER

LEE, PING

ART UNIT	PAPER NUMBER
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2644

DATE MAILED: 10/22/2003

11

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/270,273

Applicant(s)

KINOSHITA, KAZUYA

Examiner

Ping Lee

Art Unit

2644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 July 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 3 is/are rejected.
- 7) ☒ Claim(s) 2 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 28 July 2003 is: a) ☐ approved b) ☒ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 7/28/03 have been disapproved because applicant did not correct the statement specified in S5 of Fig. 2 as required in the last office action. Applicant should refer to lines 20-23 of p. 4 and make proper correction of S5 of Fig. 2. It is noticed that claim 2 specifies a limitation that has not been shown in the original drawings. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.
2. The drawings are objected to because "DIFFERENCE" in Fig. 2 is not a correctly spelled word, and the language defined S5 of Fig. 2. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Itoh et al (US 5,757,937).

Itoh et al disclose a noise level updating system with a detector means (31 of Fig. 2), a noise level holding section (33), determining means (20) and updating means (eq. 2).

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claim 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Satoh et al (US 5,293,588).

Satoh et al disclose a noise level updating system with a detector means (101 of Fig. 15), a noise level holding section (124), determining means (eq. 26 or 28) and updating means (eq. 27, 29). See col. 10.

Response to Arguments

7. Applicant's arguments filed 7/28/03 have been fully considered but they are not persuasive.

Applicant argued that element 31 in Itoh couldn't be read as the claimed detector means because applicant alleged that the claimed detector detects a noise level in scalar quantity.

First of all, none of the claims specifies that the detector means detects a noise level in scalar quantity. Secondly, "to detect" means to discover or determine the existence, presence, or fact of according to dictionary. Element 31 can be read as the claimed detector means because it discover or determine the noise level when the input signal is a noise. The output from element 31 is the representation of the noise level in frequency domain. A frequency analysis is to determine the quantity at each frequency bin. On the contrary, time analysis is to determine the quantity at each time frame.

Applicant argued that $S(f)$ of Fig. 8 in Itoh is not a detector means.

Examiner did not say that $S(f)$ is a detector means. Element 31 of Itoh is being read as the claimed detector means. Element 31 generates output $S(f)$. $S(f)$ is the amplitude (scalar) at frequency f .

Applicant argued that Itoh fails to show the claimed determining means.

It is noticed that in order to determine whether to update, equation 8 is being used. In equation 8, the power is being used. The average power is calculated based on each analysis period, which is read as a plurality of subsequent noise levels.

Applicant argued that Itoh fails to show noise level holding section.

Itoh shows that element 33 will hold (switch to N) the incoming $S(f)$ detected by the detector means (element 31). Therefore, Itoh shows the claimed limitation.

Applicant argued that Satoh's element 101 cannot be read as the noise level detector means.

According to dictionary, "to detect" means to discover or determine the existence, presence, or fact of. Element 101 of Satoh can be read as the claimed detector means because it discover or determine the noise level when the input signal is a noise.

Applicant argued that Satoh's element 124 is not the claimed noise level holding section.

When the input signal to element 123 from element 101 is a noise, element 124 stores noise level as the claimed noise level holding section.

Applicant argued that equations 26 and 28 cannot be read as the determining means.

The average power $P(n)$ is calculated based on a frame, which is a plurality of subsequent noise, levels when the subsequent signal is a noise.

Applicant argued that equations 27 and 29 cannot be read as the updating means.

Since Satoh shows that threshold is function of power, which represents the noise power when the input is a noise, then the updated threshold can be read as the updated held noise level.

Applicant argued that Satoh fails to show the claimed limitation in claim 3.

As discussed above, $P(n)$ represents the average of the subsequent noise level, $T(n)$ is a function of the held noise level. Equation 26 shows whether to update based on the condition. Therefore, Satoh shows the claimed limitation.

Allowable Subject Matter

8. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

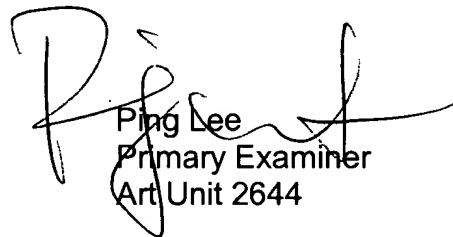
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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 703-305-4865.

The examiner can normally be reached on Monday and Tuesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.


Ping Lee
Primary Examiner
Art Unit 2644

pwl
October 20, 2003